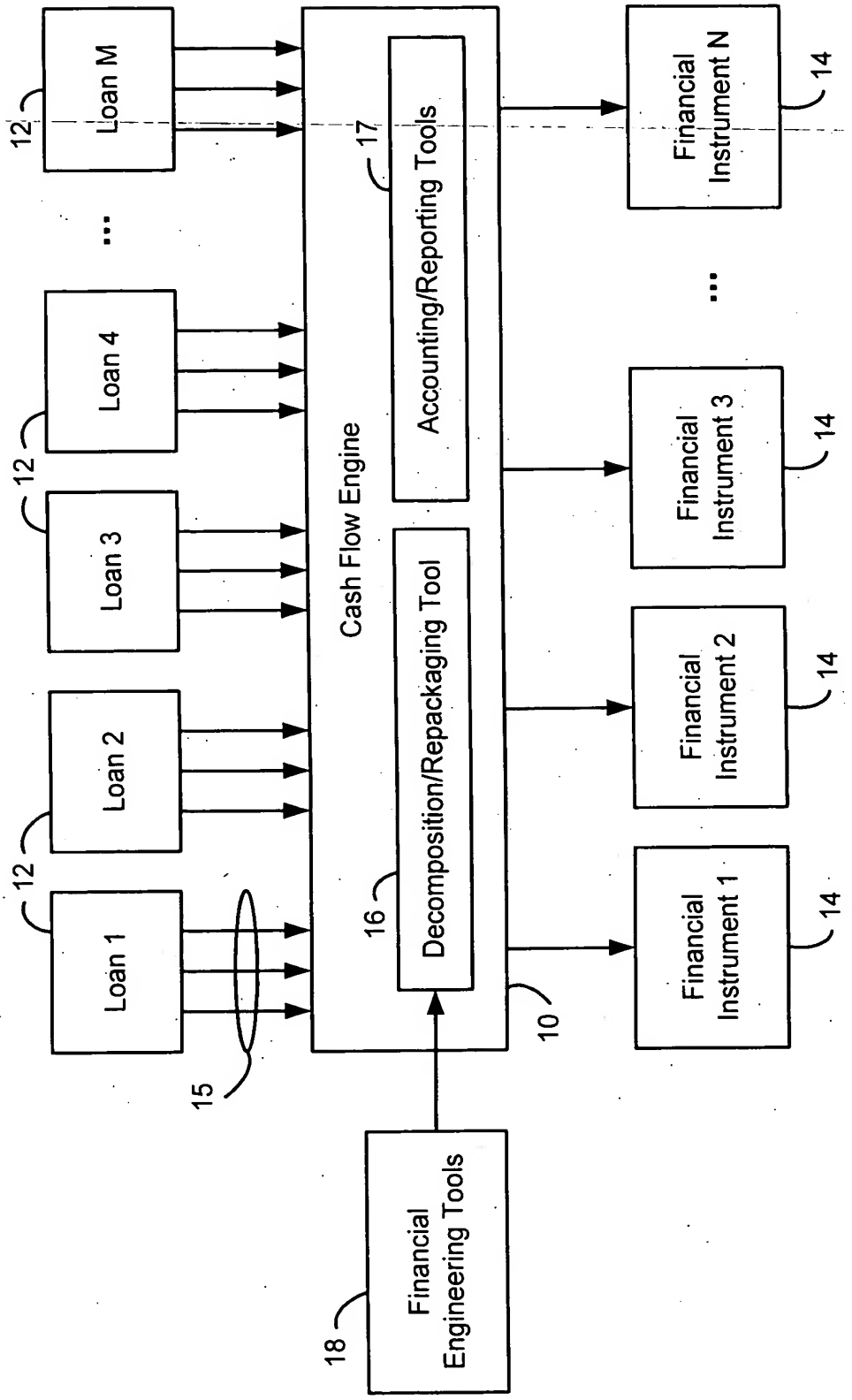

Loan M
12
Loan 4
12
Loan 3
12
Loan 2
12
Loan 1
15
Cash Flow Engine
Accounting/Reporting Tools
17
Decomposition/Repackaging Tool
16
10
Financial Instrument N
14
Financial Instrument 3
14
Financial Instrument 2
14
Financial Instrument 1
14
Financial Engineering Tools
18

FIG. 1

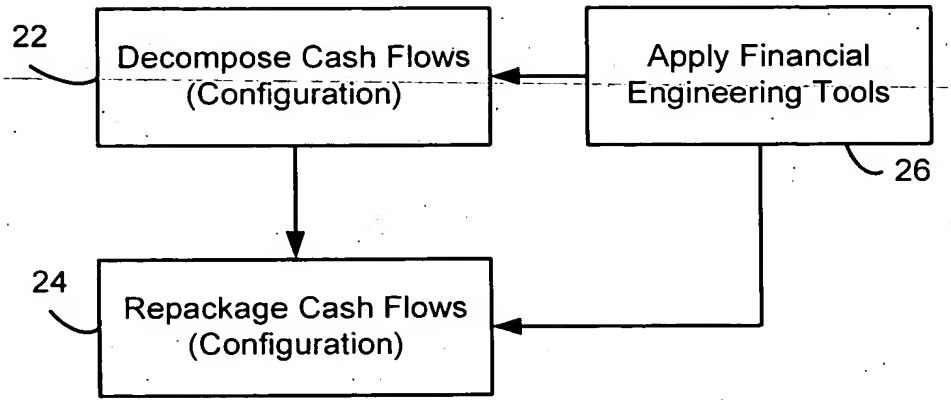

22
Decompose Cash Flows (Configuration)
Apply Financial Engineering Tools
26
24
Repackage Cash Flows (Configuration)

FIG. 2

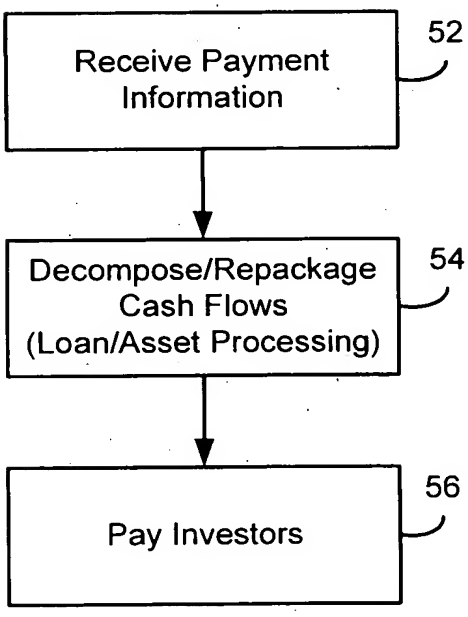

Receive Payment Information
52
Decompose/Repackage Cash Flows (Loan/Asset Processing)
54
Pay Investors
56

FIG. 4

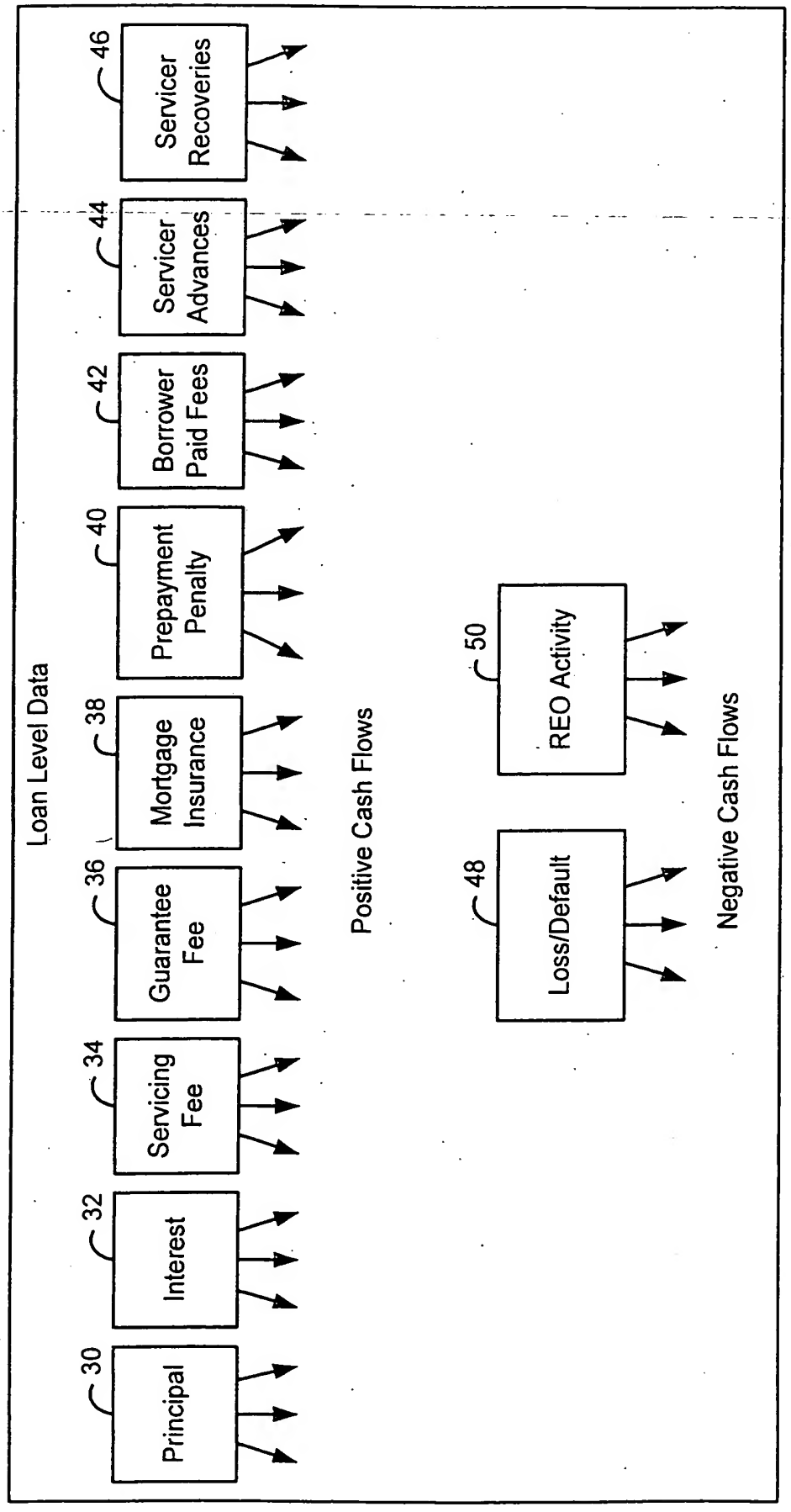

Loan Level Data
Positive Cash Flows
Negative Cash Flows
30
Principal
32
Interest
34
Servicing Fee
36
Guarantee Fee
38
Mortgage Insurance
40
Prepayment Penalty
42
Borrower Paid Fees
44
Servicer Advances
46
Servicer Recoveries
48
Loss/Default
50
REO Activity

FIG. 3

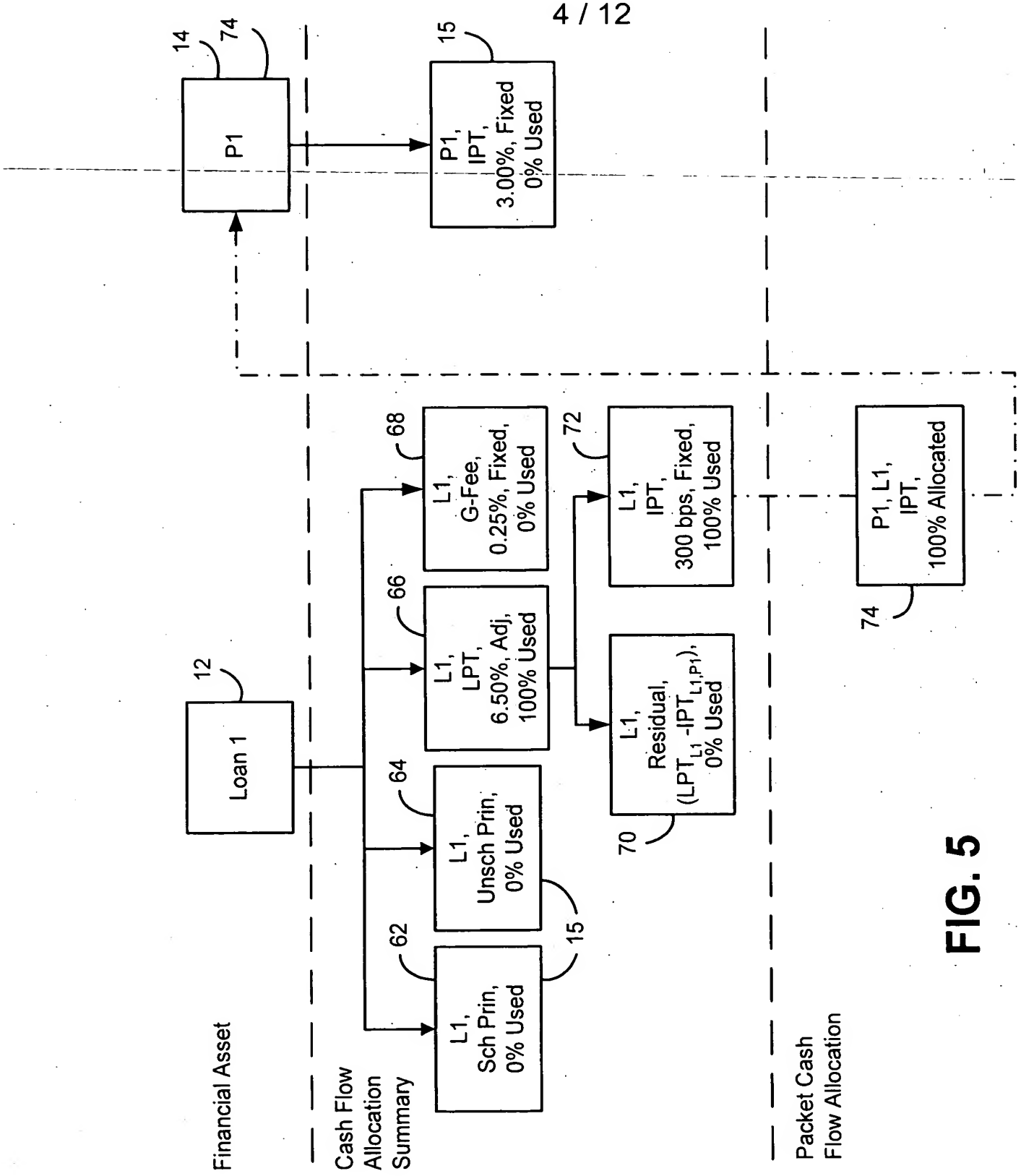

Financial Asset
Cash Flow Allocation Summary
Packet Cash Flow Allocation
Loan 1
12
P1
14
74
P1, IPT, 3.00%, Fixed 0% Used
15
L1, Sch Prin, 0% Used
62
L1, Unsch Prin, 0% Used
64
L1, LPT, 6.50%, Adj, 100% Used
66
L1, G-Fee, 0.25%, Fixed, 0% Used
68
L1, Residual, (LPT$_{L1}$ -IPT$_{L1,P1}$), 0% Used
70
L1, IPT, 300 bps, Fixed, 100% Used
72
P1, L1, IPT, 100% Allocated
74

FIG. 5

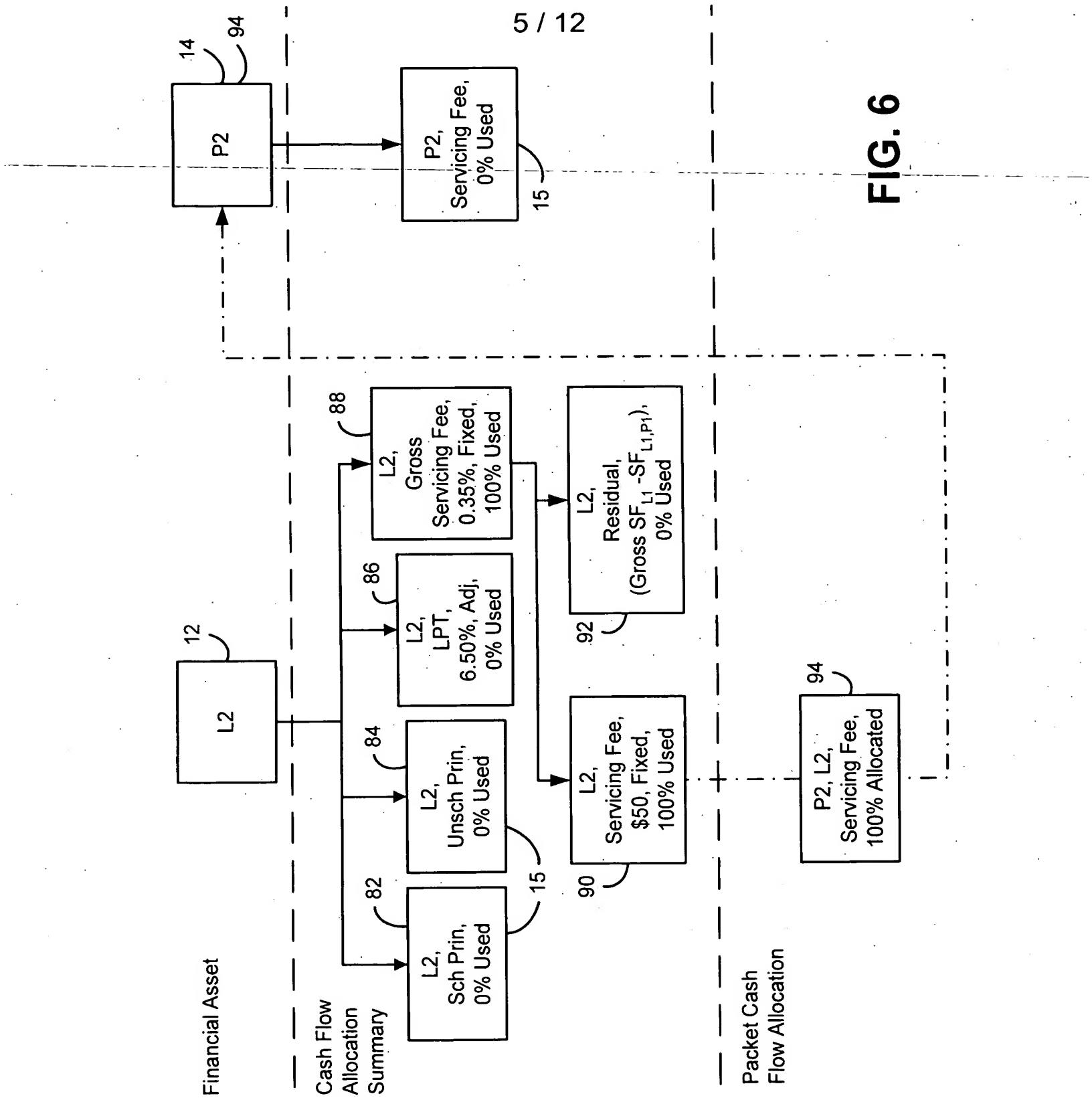

Financial Asset
Cash Flow Allocation Summary
Packet Cash Flow Allocation
L2
12
L2, Sch Prin, 0% Used
82
L2, Unsch Prin, 0% Used
84
L2, LPT, 6.50%, Adj, 0% Used
86
L2, Gross Servicing Fee, 0.35%, Fixed, 100% Used
88
L2, Servicing Fee, $50, Fixed, 100% Used
90
L2, Residual, (Gross SF_{L1} -$SF_{L1,P1}$), 0% Used
92
15
15
P2
14
94
P2, Servicing Fee, 0% Used
P2, L2, Servicing Fee, 100% Allocated
94

FIG. 6

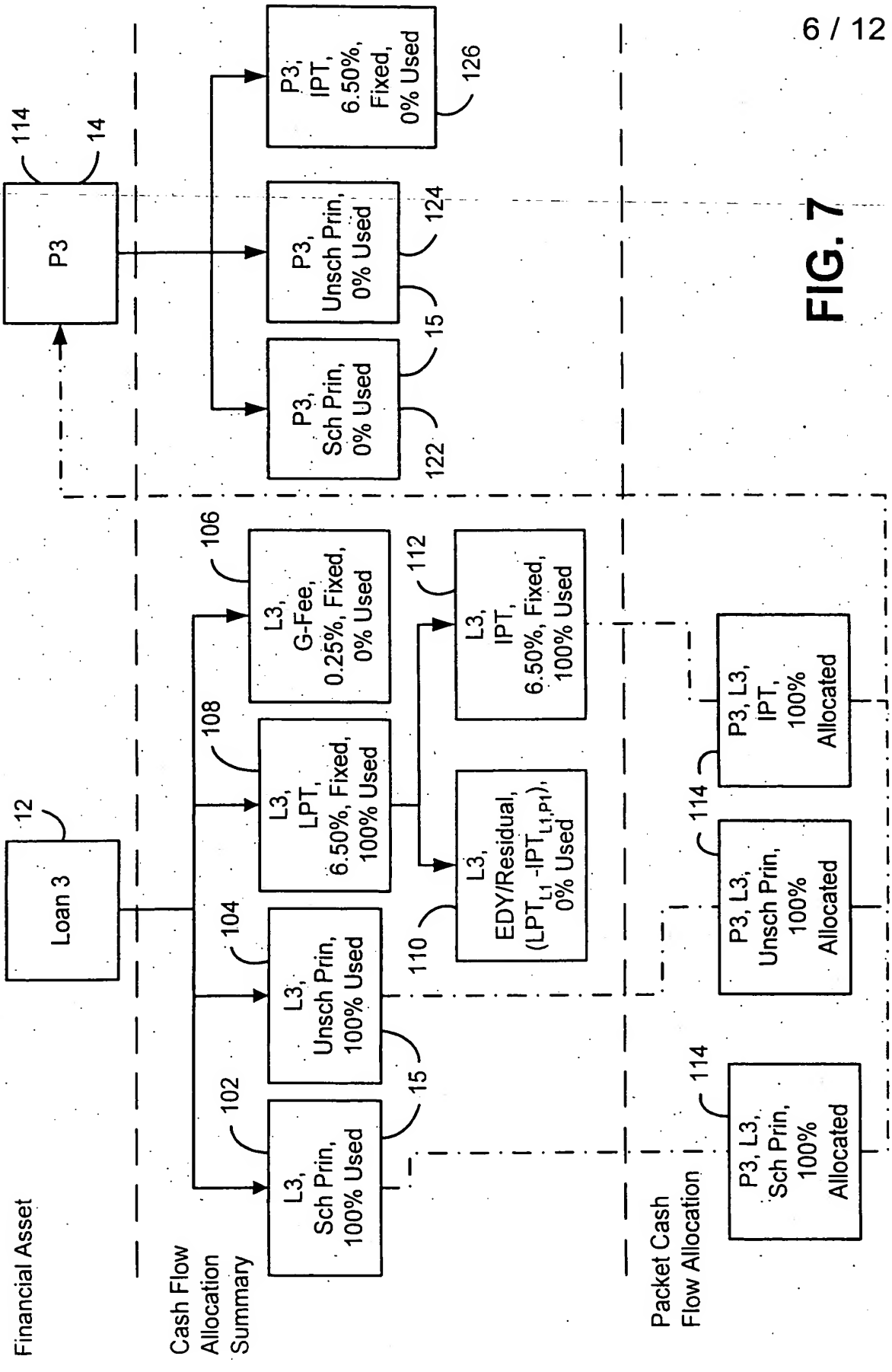

Financial Asset
Loan 3
12
Cash Flow Allocation Summary
L3, Sch Prin, 100% Used
102
L3, Unsch Prin, 100% Used
104
L3, LPT, 6.50%, Fixed, 100% Used
108
L3, G-Fee, 0.25%, Fixed, 0% Used
106
L3, EDY/Residual, (LPT$_{L1}$ -IPT$_{L1,P1}$), 0% Used
110
L3, IPT, 6.50%, Fixed, 100% Used
112
15
P3
114
14
P3, Sch Prin, 0% Used
122
P3, Unsch Prin, 0% Used
124
P3, IPT, 6.50%, Fixed, 0% Used
126
Packet Cash Flow Allocation
P3, L3, Sch Prin, 100% Allocated
P3, L3, Unsch Prin, 100% Allocated
P3, L3, IPT, 100% Allocated

FIG. 7

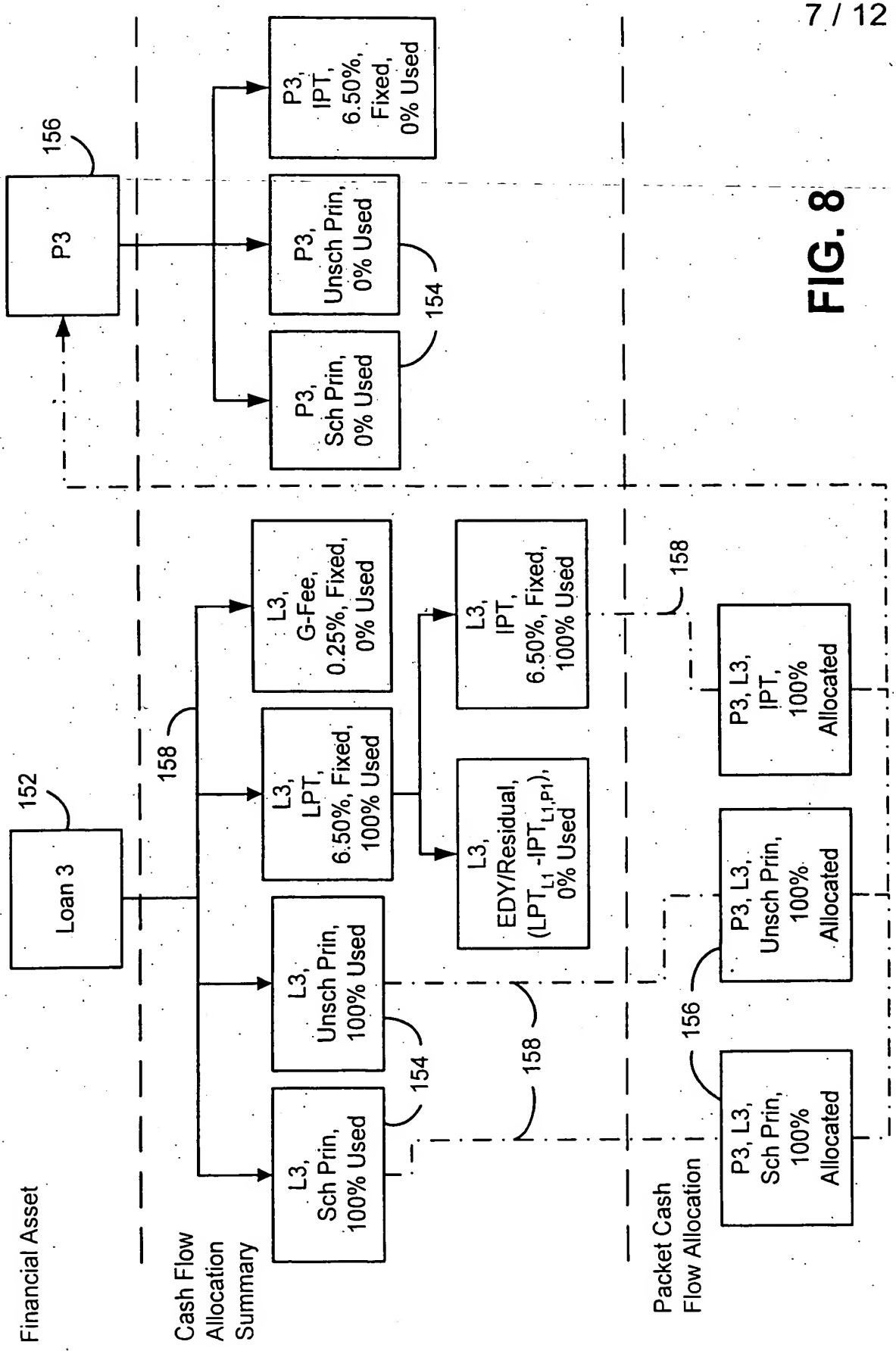

Financial Asset
Loan 3
152
Cash Flow Allocation Summary
158
L3, Sch Prin, 100% Used
L3, Unsch Prin, 100% Used
154
L3, LPT, 6.50%, Fixed, 100% Used
L3, G-Fee, 0.25%, Fixed, 0% Used
L3, EDY/Residual, (LPT$_{L1}$ -IPT$_{L1,P1}$), 0% Used
L3, IPT, 6.50%, Fixed, 100% Used
158
Packet Cash Flow Allocation
156
P3, L3, Sch Prin, 100% Allocated
P3, L3, Unsch Prin, 100% Allocated
P3, L3, IPT, 100% Allocated
158
P3
156
P3, Sch Prin, 0% Used
P3, Unsch Prin, 0% Used
154
P3, IPT, 6.50%, Fixed, 0% Used

FIG. 8

Packet Type	Packet State	Assets	Asset Types	Allocation of Cashflow From Asset	Effective Dates
214	218	222	226	230	234

210

FIG. 9

Header	Map	Process Instructions	Output Requirements
240	242	244	246

236

FIG. 10

Examples of Possible Packet Content

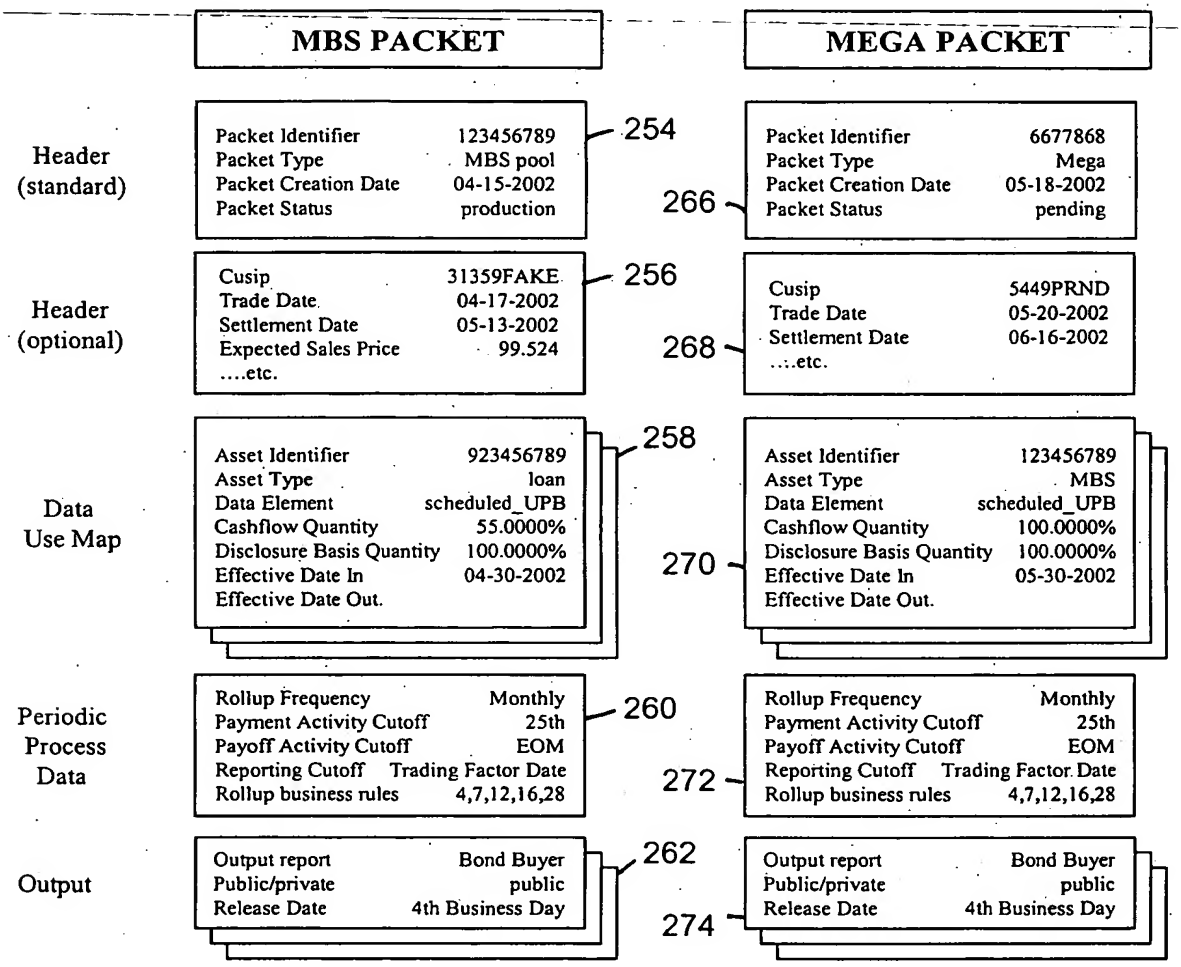


FIG. 11

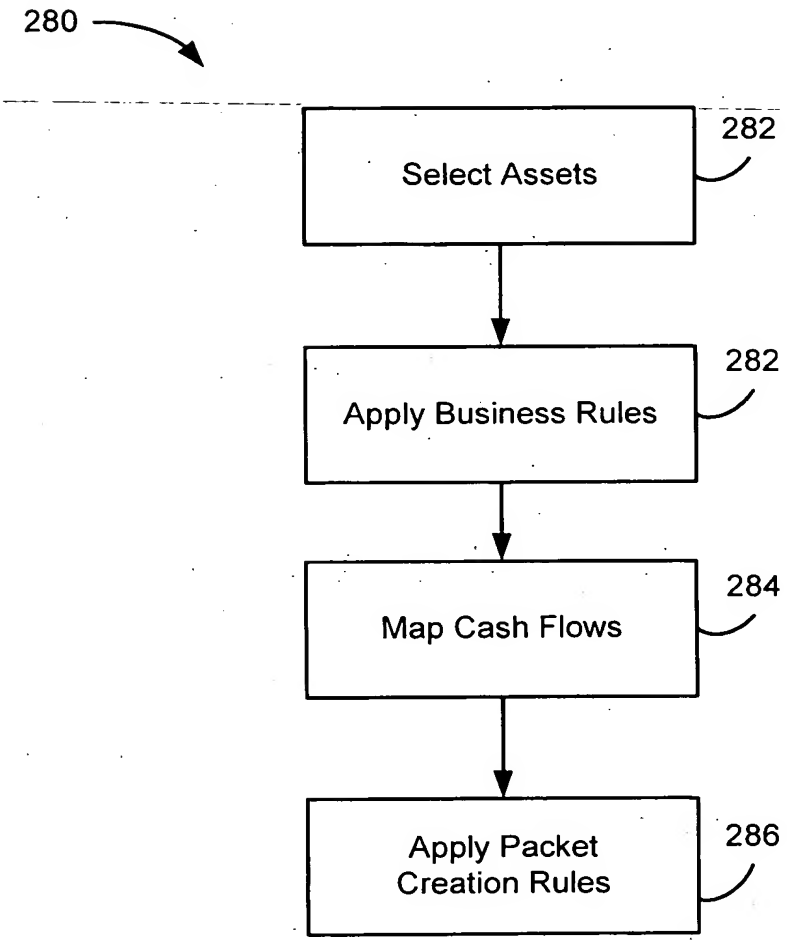

280
Select Assets
282
Apply Business Rules
282
Map Cash Flows
284
Apply Packet Creation Rules
286

FIG. 12

FIG. 13

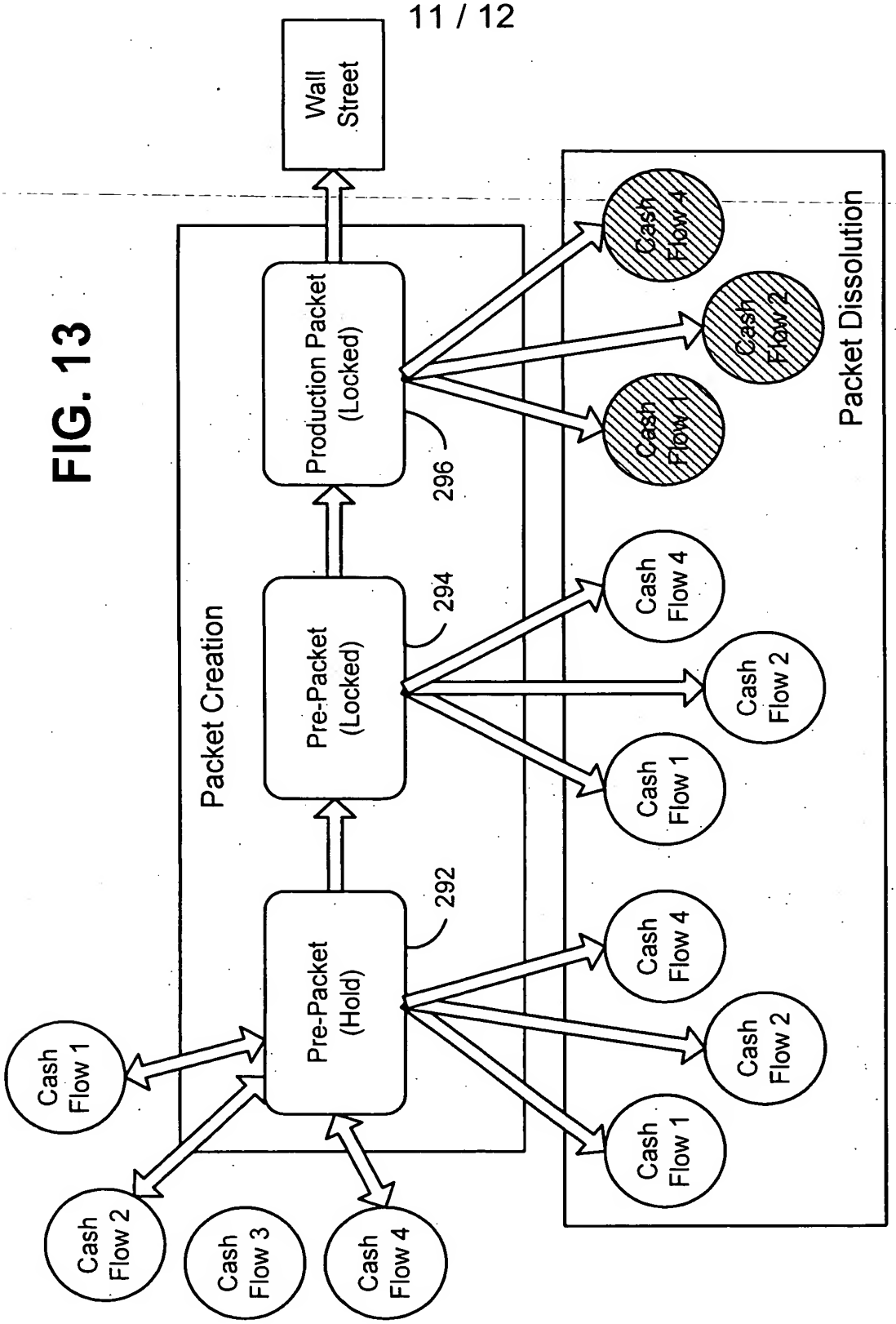
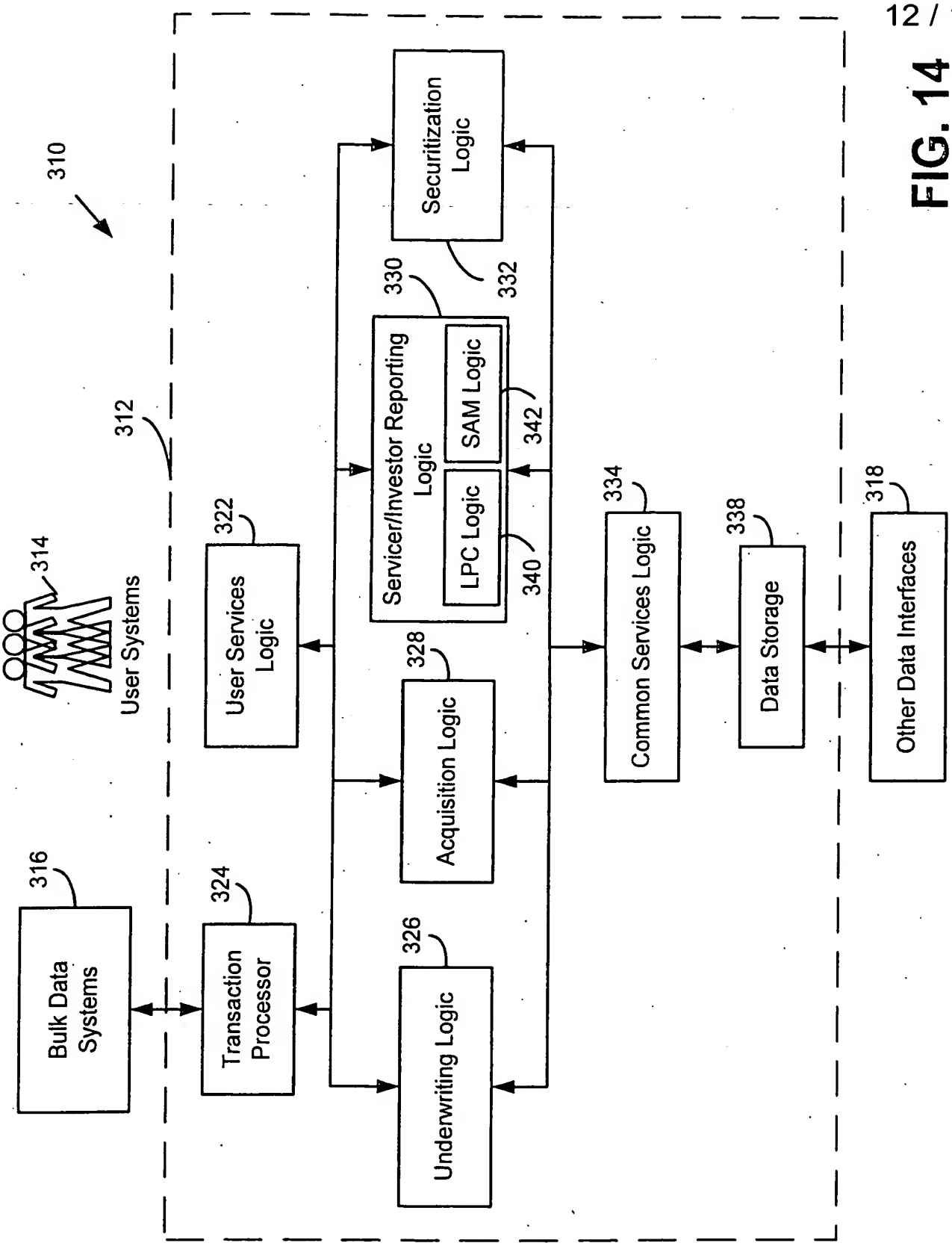

Wall Street
Packet Creation
Packet Dissolution
Production Packet (Locked)
296
Pre-Packet (Locked)
294
Pre-Packet (Hold)
292
Cash Flow 1
Cash Flow 2
Cash Flow 3
Cash Flow 4
Cash Flow 4
Cash Flow 2
Cash Flow 1
Cash Flow 4
Cash Flow 2
Cash Flow 1
Cash Flow 4
Cash Flow 2
Cash Flow 1

FIG. 14


310
312
314
User Systems
316
Bulk Data Systems
322
User Services Logic
324
Transaction Processor
326
Underwriting Logic
328
Acquisition Logic
330
Servicer/Investor Reporting Logic
332
Securitization Logic
340
LPC Logic
342
SAM Logic
334
Common Services Logic
338
Data Storage
318
Other Data Interfaces